- at a first time when the mobile device is not in a similar orientation of the sample and capture guide, determining to not capture the initial sample image; and
- at a second time when the mobile device is in a similar orientation of the sample and capture guide, capturing the initial sample image, without user input to capture the initial sample image at the second time.
- 14. The method of claim 1 comprising:
- detecting a computer-readable indication shown on the capture guide area of the initial sample image; and
- determining a first direction for a sample shown in the sample area using the computer-readable indication.
- 15. The method of claim 1 comprising:
- comparing, based on two different white point markers that are visible in the initial sample image, a chromaticity differential for the two different white point markers;
- determining, based on the chromaticity differential, a chromaticity gradient to compensate for the chromaticity differential; and
- applying the chromaticity gradient over the initial sample image by adjusting chromaticity values.
- 16. The method of claim 1 comprising:
- comparing, based on two different color markers of a single color that are visible in the initial sample image, a color differential for the two different color markers;
- determining, based on the color differential, a color gradient to compensate for the color differential; and
- applying the color gradient over the initial sample image by adjusting color values.

- 17. The method of claim 1 comprising:
- comparing, based on two different white point markers that are visible in the initial sample image, a chromaticity differential for the two different white point markers;
- determining, based on the chromaticity differential, a chromaticity gradient to compensate for the chromaticity differential:
- applying the chromaticity gradient over the initial sample image by adjusting chromaticity values;
- comparing, based on two different color markers of a single color that are visible in the initial sample image, a color differential for the two different color markers;
- determining, based on the color differential, a color gradient to compensate for the color differential; and
- applying the color gradient over the initial sample image by adjusting color values.
- 18. The method of claim 17 wherein applying the chromaticity gradient is before applying the color gradient.
 - 19. The method of claim 1 comprising:
 - converting the sample swatch area into a grayscale layer; receiving selection of a base color;
 - applying a base color layer to at least a portion of the grayscale layer, wherein the applied base color matches the intensity of an original color of the sample swatch area.
 - 20. The method of claim 1 comprising:
 - receiving selection of a first area from the sample swatch area or the initial sample image and a selected color space;
 - translating, from a color at the first area, to a matching color identifier in the selected color space; and
 - storing as metadata with the sample swatch area or the initial sample image the matching color identifier.

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